

## UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

CARIBBEAN ENVIRONMENTAL PROTECTION DIVISION CITY VIEW PLAZA II, SUITE 7000 GUAYNABO, PUERTO RICO 00968-8069 MAY 2 9 2014

# CERTIFIED MAIL-RETURN RECEIPT REQUESTED

Article Number: 7011 0470 0000 5040 2526

Irma López **Executive Director** Compliance and Quality Control Directorate Puerto Rico Aqueduct and Sewer Authority P.O. Box 7066 San Juan, Puerto Rico 00916-9990

Re: Compliance Evaluation Inspection

> Guánica Wastewater Treatment Plant NPDES Permit Number PR0020486

Dear Mrs. López:

On May 7, 2014, the United States Environmental Protection Agency (EPA) conducted a Compliance Evaluation Inspection (CEI) at the Guánica Wastewater Treatment Plant. The purpose of the inspection was to assess PRASA's operational and maintenance practices at the facility.

Enclosed you will find a copy of the Water Compliance Inspection Report, which summarizes our findings during the CEI. Within forty five (45) calendar days of receipt of this letter, please respond with the actions PRASA has taken or will be taken to address the findings of the inspection.

Should you have any questions, feel free to contact me or Miguel A. Batista of my staff at (787) 977-5823.

Cordially,

Jaime A. Géliga

Chief

Municipal Water Programs Branch

Caribbean Environmental Protection Division

Enclosure

Roberto Ayala, EQB CC.

David Velázquez, PRASA Nashaly Berrios, PRASA Jeannette Velez, PRASA

# €FPA

# United States Environmental Protection Agency Washington, D.C. 20460

Form Approved. OMB No. 2040-0057

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## Summary of Findings/Comments Water Compliance Inspection Report Form (EPA Form 3560-3)

#### COMPLIANCE EVALUATION INSPECTION

Facility Name:

Guánica WWTP

NPDES Permit Number: PR0020486

PRASA Representative: Julio I. Fraticelli, Plant Operator

Israel Cruz, Plant Operator José Bosa, Plant Supervisor

#### **BACKGROUND** Ι.

A Compliance Evaluation Inspection (CEI) was conducted on May 7, 2014 at the Guánica WWTP. The CEI consisted of an opening interview to discuss the purpose of the inspection and to request information about the facility. The inspection consisted of a site tour to assess the operational and maintenance conditions, document's review, and a closing interview to discuss preliminary findings. Finally, a grab sample of the effluent was collected to determine compliance with the effluent limitations established by the permit at the time of the inspection.

#### II. PLANT OPERATION AND MAINTENANCE

The Guánica WWTP consists of two treatment modules. One module is a 0.5 MGD activated sludge conventional package plant (Old Plant) and the second module is a 1.25 MGD Biological Nutrient Removal (BNR) treatment plant (New Plant). At the time of the CEI, the BNR module (New Plant) was not in operation.

At the time of the inspection, Mr. Julio I. Fraticelli and Mr. Israel Cruz were acting as Plant Operators for the Guánica WWTP. Mr. Fraticelli has obtained the certification as a Wastewater Treatment Plant Operator Level IV # 2249 which expires on March 15, 2015. Mr. Cruz has obtained the certification as a Wastewater Treatment Plant Operator Level III # 2922 which expires on August 2, 2015.

#### III. FACILITY SITE REVIEW - SUMMARY OF FINDINGS

#### A. **Preliminary Treatment**

- 1. Bar Screens/Comminutors
  - The plant has two entrance channels: one channel has a bar screen, and the other channel has a comminutor.
  - The entrance channel with the bar screen is used when the comminutor goes out of service.
  - At the time of the CEI, the bar screen was not in use.
  - The comminutor was in operation.
- Influent Wet Well/Influent Pumps
  - The wet well was clean, and had no solids.
  - The plant has six (6) influent pumps: three (3) for the old plant, and three (3) for the new plant. The three (3) influent pumps at the new plant were not in operation. The three (3) influent pumps at the old plant were operating on automatic mode.
- 3. Grit Removal Mechanism
  - The facility has two (2) Pista type grit removal systems. Unit # 1 was in operation. Unit # 2 was out of service, and had an oil leak.

 The screw conveyor to collect the grit from both grit removal systems was on automatic mode of operation.

## B. Secondary Treatment

#### Activated Sludge Module

- Some sludge and grease were observed at the surface of the clarifier, and at the clarifier's center well or inner baffle, as well.
- The sludge blanket at the clarifier was approximately 1 ft.
- The clarifier's arm base was corroded.
- The rubber for the clarifier's arm was broken.
- Some sprayers of the distribution pipeline were clogged.
- The plant has three (3) blowers. Original blower # 1 (which was taken out to be repaired) was replaced by a temporary unit on April 8, 2014. Temporary blower # 1 was in operation. Blower # 2 was in operation. Blower # 3 was out of service.

#### C. Chlorination/De-chlorination Facilities

- There are three (3) chlorine contact chambers at the facility. The chlorine contact chamber #
   2 was in use. The chlorine contact chambers # 1 and # 3 were not in service.
- The chlorine inventory at the time of the inspection consisted of four (4) two thousand gallon pound chlorine cylinders (2,000 lbs): one (1) chlorine cylinder was in use, one (1) chlorine cylinder was empty, and two (2) chlorine cylinders were full.
- The plant has two (2) chlorine leak detectors as reference instruments. When a chlorine leak was simulated, both units did work. The chlorine leak detectors were calibrated on April 16, 2014.
- The exhaust fan was tested, and it was found operable.
- The automatic chlorine dosifier device (Hydro) was in operation. It was calibrated on April 16, 2014.

#### D. Sludge Handling

- The aerobic digester chamber was in operation. Solids accumulation was not observed at its surface.
- The plant has two (2) unroofed sludge drying beds. At the time of the CEI, both units were empty.
- The sludge belt filter press was on stand-by mode, but operable.

#### E. Alternate Power Units (APU)

- The new 750 KVA Alternate Power Unit (APU) has a 5,000-gallon diesel tank capacity.
- A diesel level ruler is now available at the plant. Operators have now a safe access to add diesel for the APU.
- The addition of water for the new APU's radiator, still results unsafe for the operator who needs to stand on the APU's motor to perform this task. This unit has no stairs or a safe mechanism to access it. This finding has been observed at least during the previous inspections conducted on May 7, 2013; and November 21, 2013.
- The power outage simulation was not performed.

#### F. Auto-Samplers

- This facility has two (2) auto-samplers. At the time of the CEI, the temperature inside influent auto-sampler was 3 °C, and the temperature inside the effluent auto-sampler was 2 °C. Both temperatures were within the acceptable range of less or equal to 6 °C.
- The influent and effluent sampling hoses looked clean.
- The thermometers for both auto-samplers were last calibrated on May 20, 2013.

#### G. Daily Sampling Meters

- The dissolved oxygen, the colorimeter, the turbidimeter, the pH and the residual chlorine meters were in good operational conditions.
- The above-mentioned equipments were last calibrated on April 16, 2014.

#### H. Flow Measuring Devices

- The primary flow measuring device being used at the facility is a Parshall flume.
- A flow totalizer and a chart recorder were being used as secondary flow measuring devices.
- The flow totalizer was last calibrated on April 16, 2014.
- The chart recorder was last calibrated on April 16, 2014.

#### I. Effluent Quality

A grab sample of the effluent was taken by the operator at sampling point 001 during the inspection. Effluent was clear, no solids were observed. The results of the effluent sample taken during the inspection were as follows:

- a. Residual chlorine 0.01 mg/l. \*
- b. pH 7.47 S.U.
- c. Temperature 30.0 °C.
- d. Dissolved oxygen (DO) 7.10 mg/l.
- e. Settleable solids- 0.00.
- f. Turbidity 1.46 NTU.

### IV. RECORDS REVIEW

- A. A copy of the NPDES permit was available at the plant.
- B. Process Control, Sampling and Compliance Data Record
  - 1. Copies of the daily sampling average reports were available for review.
  - 2. A review of the DMRs for the period of April 2013 to March 2014 revealed the following exceedances:
    - March/2014 Arsenic, Copper, Total Nitrogen.
    - February/2014 Copper, Total Nitrogen, Cyanide Free.
    - January/2014 Copper, Total Nitrogen, pH.
    - December/2013 Arsenic, Copper, Total Nitrogen, Cyanide Free.
    - November/2013 Arsenic, Copper, Total Nitrogen, Cyanide Free, Enterococci.
    - October/2013 Arsenic, Copper, Total Nitrogen, Cyanide Free.
    - September/2013 Arsenic, Copper, Total Nitrogen, Cyanide Free.
    - August/2013 Arsenic, Copper, Total Nitrogen, pH.
    - July/2013 Arsenic, Copper, Total Nitrogen.
    - June/2013 Arsenic, Copper, Total Nitrogen, Cyanide Free.
    - May/2013 Arsenic, Copper, Total Nitrogen, Cyanide Free.
    - Apr/2013 Arsenic, Copper, Total Nitrogen, Cyanide Free.
  - 3. Copies of the monthly sampling itineraries and sampling records were available for randomly review. Documents dated on January 8, 2014; February 26, 2014; March 5, 2014; and April 16, 2014; appeared to be updated.
  - 4. Copies of the auto-samplers maintenance records and chain of custody data were available for review.

#### C. Maintenance Records

1. Equipment operational status checklist (Form AAA-48) - The equipment operational status is being check on a daily basis.

<sup>\*</sup> Chlorine's application adjustment was performed by the plant operator at the time of the CEI.

2. The following tables details the status of the equipment that was out of operation or in malfunction at the time of the previous inspection (RI conducted on November 21, 2013):

# a) Blowers and Generator Building

| EQUIPMENT                                   | DATE      | NOTIFICATION #<br>SAP # | COMMENT           | STATUS                     |
|---|-----------|-------------------------|-------------------|----------------------------|
| Motor-Blower # 3 (old plant)                | May/13/13 | 10173756<br>208952      | Out of operation. | Not corrected.             |
| Exhaust Fan -<br>Blowers Room -<br>Bathroom | Sep/24/13 | 10210393<br>1112474     | Out of service.   | Corrected on<br>Jan/30/14. |
| Exhaust Fan -<br>Blowers Room               | Sep/24/13 | 10210394<br>1112475     | Out of service.   | Corrected on Sep/24/13.    |

# b) Chlorination Building

| EQUIPMENT                      | DATE      | NOTIFICATION #<br>SAP # | COMMENT            | STATUS                  |
|--------------------------------|-----------|-------------------------|--------------------|-------------------------|
| Booster Pump<br>Potable Cl2    | Oct/30/13 | 10220593<br>1104903     | Leak.              | Corrected on Dec/29/13. |
| Automatic<br>Chlorine Dosifier | Nov/4/13  | 10221654<br>1114753     | Obstructed vacuum. | Corrected on Feb/20/14. |
| Chorine Gas<br>Detector 4      | Nov/11/13 | 10223515<br>1110020     | Inactive alarm.    | Corrected on Dec/10/13. |

# c) BNR Building - Influent Dry Pit

| EQUIPMENT                            | DATE     | NOTIFICATION #<br>SAP # | COMMENT                                | STATUS                  |
|--------------------------------------|----------|-------------------------|--|-------------------------|
| Paddle Drive<br>Degritter # 1        | Nov/4/13 | 10221656<br>209655      | Oil change.                            | Corrected on Nov/29/13. |
| Paddle Drive<br>Degritter # 2        | Nov/4/13 | 10221657<br>209656      | Oil change.                            | Corrected on Nov/29/13. |
| Influent Pumps<br>Panel (new plant)  | Nov/4/13 | 10221658<br>213036      | It does not operate in automatic mode. | Corrected on Jan/7/14.  |
| Motor – Panel<br>Drive Degritter # 1 | Nov/4/13 | 10221659<br>1115315     | Flooded area.                          | Corrected on Feb/26/14. |
| Motor – Panel<br>Drive Degritter # 2 | Nov/4/13 | 10221660<br>1115316     | Flooded area.                          | Corrected on Feb/26/14. |

## d) BNR Building - Filter Press

| EQUIPMENT    | DATE      | NOTIFICATION #<br>SAP # | COMMENT                     | STATUS         |
|--------------|-----------|-------------------------|-----------------------------|----------------|
| Filter Press | Jun/25/13 | 10184561<br>1107285     | Corroded angular structure. | Not corrected. |
| Transmission | Jun/25/13 | 10184564<br>1112468     | Chain change/paint.         | Not corrected. |

# e) BNR Building - Generator

| EQUIPMENT | DATE      | NOTIFICATION #<br>SAP # | COMMENT          | STATUS                 |
|-----------|-----------|-------------------------|------------------|------------------------|
| Generator | Nov/11/13 | 10223524<br>1102660     | Broken radiator. | Corrected on Mar/8/14. |

# f) BNR Building - Blowers

| EQUIPMENT    | DATE      | NOTIFICATION #<br>SAP # | COMMENT                               | STATUS                  |
|--------------|-----------|-------------------------|---------------------------------------|-------------------------|
| MCC BNR Room | Sep/17/13 | 10207725<br>213035      | Out of operation. Cables were stolen. | Corrected on Feb/13/14. |

# g) Other

| EQUIPMENT                | DATE      | NOTIFICATION #<br>SAP # | COMMENT           | STATUS         |
|--------------------------|-----------|-------------------------|-------------------|----------------|
| Exterior<br>Illumination | Sep/08/13 | 10206847                | Out of operation. | Not corrected. |

3. At the time of the CEI, the following equipment was found out of operation or in malfunction:

# a) Blowers and Generator Building

| EQUIPMENT        | DATE      | NOTIFICATION # | SAP#   | COMMENT                   |
|------------------|-----------|----------------|--------|---------------------------|
| Motor-Blower # 1 | Jan/23/14 | 10236716       | 208950 | Squeaky noise. Vibration. |
| Motor-Blower # 2 | Apr/2/14  | 10251800       | 208951 | Air leak.                 |

# b) Clarifier Tank Building

| EQUIPMENT                       | DATE      | NOTIFICATION # | SAP#    | COMMENT                           |
|---------------------------------|-----------|----------------|---------|-----------------------------------|
| Spray Sum Pump                  | Apr/7/14  | 10252742       | 1114178 | Clogged.                          |
| Clarifier's Arm<br>Transmission | Mar/14/14 | 10248208       | 209657  | Corroded bases.<br>Broken rubber. |

# c) Non Potable Water Pit Building

| EQUIPMENT             | DATE     | NOTIFICATION# | SAP#    | COMMENT                                  |
|-----------------------|----------|---------------|---------|--|
| Pump/Motor<br>NPW # 1 | Apr/9/14 | 10253272      | 1113577 | Broken check valve. Pump out of service. |

### d) Influent Dry Pit BNR Building

| EQUIPMENT                     | DATE      | NOTIFICATION # | SAP#   | COMMENT       |
|-------------------------------|-----------|----------------|--------|---------------|
| Paddle Drive<br>Degritter # 2 | Mar/11/14 | 10247430       | 209656 | Broken seals. |

#### e) BNR Building – Blowers

| EQUIPMENT            | DATE      | NOTIFICATION # | SAP#    | COMMENT               |
|----------------------|-----------|----------------|---------|-----------------------|
| Motor-Blower BNR # 2 | Mar/21/14 | 10247624       | 208945  | Filter change.        |
| Motor-Blower BNR # 3 | Mar/21/14 | 10247625       | 208946  | Filter change.        |
| Motor-Blower BNR # 4 | Mar/21/14 | 10247626       | 208947  | Filter change.        |
| Motor-Blower EQ # 1  | Mar/21/14 | 10247620       | 208948  | Filter/pulley change. |
| Motor-Blower EQ # 2  | Mar/21/14 | 10247627       | 208949  | Filter change.        |
| Motor-Blower BNR # 1 | Mar/21/14 | 10247623       | 1104338 | Filter change.        |

#### f) Other

| EQUIPMENT                                     | DATE      | NOTIFICATION # | SAP#      | COMMENT         |
|---|-----------|----------------|-----------|-----------------|
| Booster Pump –<br>Elect manhole<br>(chlorine) | Nov/29/13 | 10226835       | No SAP #. | Got burned.     |
| UPS System –<br>Chlorine cylinders.           | Dec/17/13 | 10230556       | No SAP #. | Battery backup. |
| Air lift – waste.                             | Feb/27/14 | 10236719       | No SAP #. | Clogged.        |

- 3. Logbook A random check of the Preventive Maintenance Schedule (PMS) for the months of January/2014 until April/2014 revealed that all work orders were performed as scheduled.
- 4. Emergency generator checklist (Form AAA-500-C) The operational status of the APU is being done on a bi-weekly basis. The last oil change for the APU was performed on November 14, 2012.
- D. The Monthly Chlorine Report and the Chemical Products Report were reviewed from May/2013 until April/2014. Documentation appeared to be updated.

#### V. CONCLUSION

Please note that Part C.5 of Attachment I of the permit requires the permittee to properly operate and maintain all facilities and systems for collection and treatment (and related appurtenances) which are installed or used to achieve compliance.